Assignment -3

Python Programming

Assignment Date	19 September 2022
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Maximum Marks	2 MarK

Question-1:

Write a python program to test a given number is prime or not.

Solution:

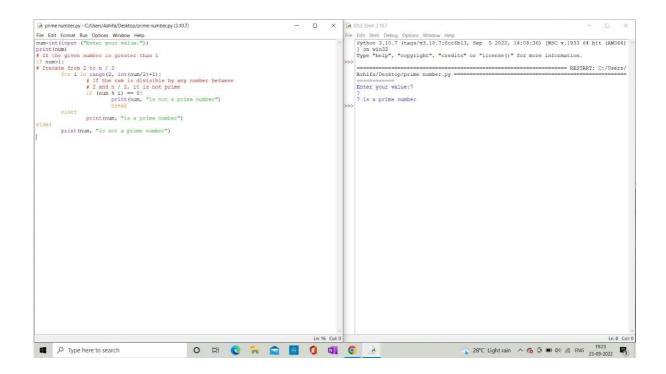
```
num=int(input ("Enter your
              value:"))print(num)
# If given number is greater than 1
              if num>1:
       # Iterate from 2 to n / 2
                      for i in range(2, int(num/2)+1):
               # If num is divisible by any number
              between# 2 and n / 2, it is not prime
                              if (num \% i) == 0:
                                     print(num, "is not a prime
                                     number")break
                             else:
                                     print (num, "is a prime number")
                             else:
                                     print (num, "is not a prime
                                     number")
```

Output:

Enter your value:

77

7 is a prime number.



Question-2:

Write a program to generate odd numbers from m to n using while loop.

Solution:

```
# Python program to print odd Numbers
```

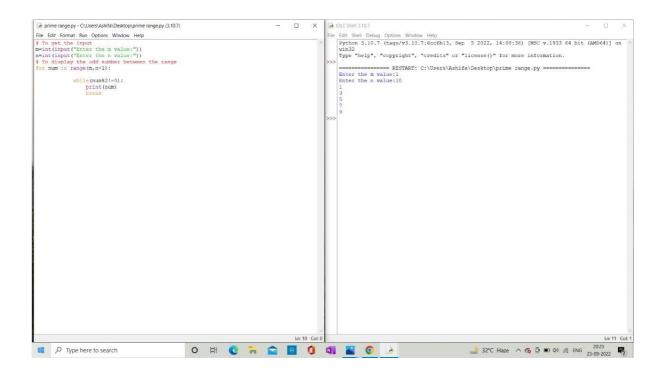
```
m=int(input("Enter the m
value:"))n=int(input("Enter the n
value:"))
```

for num in range(m,n+1):

```
while(num%2!=0)
:print(num)
break
```

Output:

```
Enter the m value:1 Enter the n value:101
3
5
7
9
```



Question-3:

Write a python program to display prime number series up to given number.

Solution:

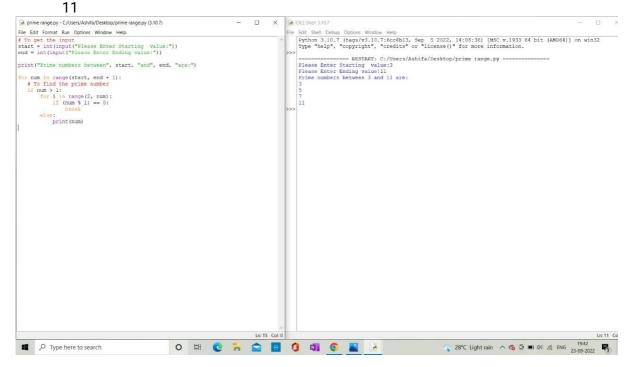
Python program to display all the prime numbers within an interval

```
lower = int(input("Please Enter minimum value:"))
upper = int(input("Please Enter maximum
value:"))

print("Prime numbers between", lower, "and", upper,
"are:")for num in range(lower, upper + 1):
  # all prime numbers are greater than 1
  if num > 1:
    for i in range(2,
        num):if (num % i)
        == 0:
        brea
    kelse:
        print(num)
```

Output:

```
Please Enter Starting
Value:3Please Enter
Ending Value:11
Prime number between 3 and 11
are:3
```



Question-4:

Write a python program to generate Fibonacci series.

Solution:

print(n1)

```
# Program to display the Fibonacci sequence up to n-th
```

```
termnterms = int(input("How many terms?"))
# first two
termsn1, n2 =
0, 1
count = 0
# check if the number of terms is
validif nterms <= 0:
 print("Please enter a positive
integer")# if there is only one term,
return n1
elif nterms == 1:
 print("Fibonacci sequence
 upto",nterms,":")print(n1)
# generate fibonacci
sequenceelse:
 print("Fibonacci
 sequence:")while count <
 nterms:
```

```
nth = n1 + n2
# update
valuesn1 = n2
n2 = nth
count += 1
```

Output:

Number of

inputs:7Fibonacci

series:

0

1

1

2

3 5

8

